

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. – 7. (Cancelled)

8. (Currently Amended) A computer-readable medium having a data structure for managing video data recorded on the computer-readable medium when read by a computer having a processor, comprising:

a data area storing a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable medium the video data is configured to display images on a display when read by the computer;

a plurality of time control information areas containing a packet encoding time stamp sized from 30 to 32 bits, the time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets within a fixed packet interval of the stream; and

a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file,

wherein the data structure is associated with a blu-ray disc format,

wherein each of the data packets comprises a transport stream packet having 188 bytes or a source packet having a header and the transport stream packet, and

wherein the said fixed packet interval corresponds to at least two transport stream packets or source packets.

9. (Previously Presented) The computer-readable medium of claim 8, wherein said fixed packet interval is 10 packets.

10. (Currently Amended) A computer-readable medium having a data structure for managing video data recorded on the computer-readable medium when read by a computer having a processor, comprising:

a data area storing a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable medium the video data is configured to display images on a display when read by the computer;

a plurality of program reference timing control areas recording in said plurality of data packets;

a plurality of time control information areas containing a packet encoding time stamp sized from 30 to 32 bits, the time control information areas, representing decoding time interval information; each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets within a fixed packet interval of the stream; and

a management area storing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file,

wherein the data structure is associated with a blu-ray disc format,

wherein each of the said plurality of time control information areas is recorded in an arbitrary one packet having one of said program reference timing control areas.

11. (Currently Amended) A method of recording a data structure for managing reproduction of video data recorded on a computer-readable medium, comprising:

recording a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable medium the video data is configured to display images on a display when read by a computer;

recording a plurality of time control information areas containing a packet encoding time stamp sized from 30 to 32 bits, the time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets within a fixed packet interval of the stream; and

recording management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file,

wherein the data structure is associated with a blu-ray disc format,

wherein each of the data packets comprises a transport stream packet having 188 bytes or a source packet having a header and the transport stream packet, and

wherein the said fixed packet interval corresponds to at least two transport stream packets or source packets.

12. (Currently Amended) A method of reproducing a data structure for managing reproduction of video data recorded on a computer-readable medium, comprising:

reproducing a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable medium the video data is configured to display images on a display when read by a computer;

reproducing a plurality of time control information areas containing a packet encoding time stamp sized from 30 to 32 bits, the time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets within a fixed packet interval of the stream; and

reproducing management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file,

wherein the data structure is associated with a blu-ray disc format,

wherein each of the data packets comprises a transport stream packet having 188 bytes or a source packet having a header and the transport stream packet, and

wherein the said fixed packet interval corresponds to at least two transport stream packets or source packets.

13. (Currently Amended) An apparatus for recording a data structure for managing reproduction of video data recorded on a computer-readable medium, comprising:

an optical recording device configured to record a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable medium, a plurality of time control information on the computer-readable medium, and management information on the computer-readable medium; and

a controller for controlling the optical recording device to record a plurality of time control information areas, representing decoding time interval information, each of said plurality of time control information areas including a packet encoding time stamp sized from 30 to 32 bits, the time control information areas recorded in a corresponding one of said plurality of data packets within a fixed packet interval of the stream, and to record the management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file,

wherein the data structure is associated with a blu-ray disc format,

wherein each of the data packets comprises a transport stream packet having 188 bytes or a source packet having a header and the transport stream packet, and

wherein the said fixed packet interval corresponds to at least two transport stream packets or source packets.

14. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of video data recorded on a computer-readable medium, comprising:

an optical reproducing device configured to reproduce a plurality of data packets including source packets of at least video data of a stream including a plurality of clip files recorded on the computer-readable medium, a plurality of time control information on the computer-readable medium, and management information recorded on the computer-readable medium; and

a controller for controlling the optical recording device to reproduce a plurality of time control information areas including a packet encoding time stamp sized from 30 to 32 bits, the time control information areas, representing decoding time interval information, each of said plurality of time control information areas recorded in a corresponding one of said plurality of data packets within a fixed packet interval of the stream, and to reproduce the management information for managing reproduction of the stream, the management information including an information file associated with each clip file providing a map for the associated clip file, each map mapping presentation time information to address information for the associated clip file,

wherein the data structure is associated with a blu-ray disc format,

wherein each of the data packets comprises a transport stream packet having 188 bytes or a source packet having a header and the transport stream packet, and

wherein the said fixed packet interval corresponds to at least two transport stream packets or source packets.